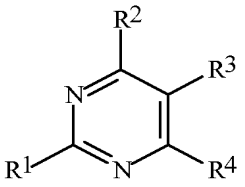
Amendments to Claims

1. (currently amended) A compound selected from Formula **I**, an *N*-oxide or an agriculturally suitable salt thereof,



I

wherein

R^1 is cyclopropyl optionally substituted with 1–5 R^5[[,]] or isopropyl optionally substituted with 1–5 R^6~~, or phenyl optionally substituted with 1–3 R^7~~;

R^2 is $((O)_jC(R^{15})(R^{16}))_kR$;

R is CO_2H or a herbicidally effective derivative of CO_2H;

R^3 is halogen, [[cyano]], nitro, OR^{20}, SR^{21} or $N(R^{22})R^{23}$;

R^4 is $-N(R^{24})R^{25}$ or $-NO_2$;

each R^5 and R^6 is independently halogen, C_1–C_6 alkyl, C_1–C_6 haloalkyl, C_2–C_6 alkenyl, C_2–C_6 haloalkenyl, C_1–C_3 alkoxy, C_1–C_2 haloalkoxy, C_1–C_3 alkylthio or C_1–C_2 haloalkylthio;

~~each R^7 is independently halogen, cyano, nitro, C_1–C_4 alkyl, C_1–C_4 haloalkyl, C_3–C_6 cycloalkyl, C_3–C_6 halocycloalkyl, C_1–C_4 hydroxyalkyl, C_2–C_4 alkoxyalkyl, C_2–C_4 haloalkoxyalkyl, C_2–C_4 alkenyl, C_2–C_4 haloalkenyl, C_3–C_4 alkynyl, C_3–C_4 haloalkynyl, hydroxy, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_2–C_4 alkenyloxy, C_2–C_4 haloalkenyloxy, C_3–C_4 alkynyloxy, C_3–C_4 haloalkynyloxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, C_1–C_4 alkylsulfinyl, C_1–C_4 haloalkylsulfinyl, C_1–C_4 alkylsulfonyl, C_1–C_4 haloalkylsulfonyl, C_2–C_4 alkenylthio, C_2–C_4 haloalkenylthio, C_2–C_4 alkenylsulfinyl, C_2–C_4 haloalkenylsulfinyl, C_2–C_4 alkenylsulfonyl, C_2–C_4 haloalkenylsulfonyl, C_3–C_4 alkynylthio, C_3–C_4 haloalkynylthio, C_3–C_4 alkynylsulfinyl, C_3–C_4 haloalkynylsulfinyl, C_3–C_4 alkynylsulfonyl, C_3–C_4 haloalkynylsulfonyl, C_1–C_4 alkylamino, C_2–C_8 dialkylamino, C_3–C_6 cycloalkylamino, C_4–C_6 (alkyl)cycloalkylamino, C_2–C_6 alkylcarbonyl, C_2–C_6 alkoxycarbonyl, C_2–C_6 alkylaminocarbonyl, C_3–C_8 dialkylaminocarbonyl, C_3–C_6 trialkylsilyl, phenyl, phenoxy and 5- or 6-membered heteroaromatic rings, each phenyl, phenoxy and 5- or 6-membered heteroaromatic ring optionally substituted with one to three substituents independently selected from R^{45}; or~~

~~two adjacent R^7 are taken together as $-OCH_2O-$, $-CH_2CH_2O-$, $-OCH(CH_3)O-$, $-OC(CH_3)_2O-$, $-OCF_2O-$, $-CF_2CF_2O-$, $-OCF_2CF_2O-$ or $-CH=CH-CH=CH-$;~~

R^{15} is H, halogen, C_1–C_4 alkyl, C_1–C_4 haloalkyl, hydroxy, C_1–C_4 alkoxy or C_2–C_4 alkylcarbonyloxy;

R^{16} is H, halogen, C_1–C_4 alkyl or C_1–C_4 haloalkyl; or

R^{15} and R^{16} are taken together as an oxygen atom to form, with the carbon atom to which they are attached, a carbonyl moiety;

R^{20} is H, C_1–C_4 alkyl or C_1–C_3 haloalkyl;

R^{21} is H, C_1–C_4 alkyl or C_1–C_3 haloalkyl;

R^{22} and R^{23} are independently H or C_1–C_4 alkyl;

R^{24} is H, C_1–C_4 alkyl optionally substituted with 1–2 R^{30}, C_2–C_4 alkenyl optionally substituted with 1–2 R^{31}, or C_2–C_4 alkynyl optionally substituted with 1–2 R^{32}; or R^{24} is $C(=O)R^{33}$, nitro, OR^{34}, $S(O)_2R^{35}$, $N(R^{36})R^{37}$ or $N=C(R^{62})R^{63}$;

R^{25} is H, C_1–C_4 alkyl optionally substituted with 1–2 R^{30} or $C(=O)R^{33}$; or

R^{24} and R^{25} are taken together as a radical selected from $-(CH_2)_4-$, $-(CH_2)_5-$, $-CH_2CH=CHCH_2-$ and $-(CH_2)_2O(CH_2)_2-$, each radical optionally substituted with 1–2 R^{38}; or

R^{24} and R^{25} are taken together as $=C(R^{39})N(R^{40})R^{41}$ or $=C(R^{42})OR^{43}$;

each R^{30}, R^{31} and R^{32} is independently halogen, C_1–C_3 alkoxy, C_1–C_3 haloalkoxy, C_1–C_3 alkylthio, C_1–C_3 haloalkylthio, amino, C_1–C_3 alkylamino, C_2–C_4 dialkylamino or C_2–C_4 alkoxycarbonyl;

each R^{33} is independently H, C_1–C_{14} alkyl, C_1–C_3 haloalkyl, C_1–C_4 alkoxy, phenyl, phenoxy or benzyloxy;

R^{34} is H, C_1–C_4 alkyl, C_1–C_3 haloalkyl or $CHR^{66}C(O)OR^{67}$;

R^{35} is C_1–C_4 alkyl or C_1–C_3 haloalkyl;

R^{36} is H, C_1–C_4 alkyl or $C(=O)R^{64}$;

R^{37} is H or C_1–C_4 alkyl;

each R^{38} is independently halogen, C_1–C_3 alkyl, C_1–C_3 alkoxy, C_1–C_3 haloalkoxy, C_1–C_3 alkylthio, C_1–C_3 haloalkylthio, amino, C_1–C_3 alkylamino, C_2–C_4 dialkylamino or C_2–C_4 alkoxycarbonyl;

R^{39} is H or C_1–C_4 alkyl;

R^{40} and R^{41} are independently H or C_1–C_4 alkyl; or

R^{40} and R^{41} are taken together as $-(CH_2)_4-$, $-(CH_2)_5-$, $-CH_2CH=CHCH_2-$ or $-(CH_2)_2O(CH_2)_2-$;

R^{42} is H or C_1–C_4 alkyl;

R^{43} is C_1–C_4 alkyl;

~~each R^{45} is independently halogen, cyano, nitro, C_1–C_4 alkyl, C_1–C_4 haloalkyl, C_3–C_6 cycloalkyl, C_3–C_6 halocycloalkyl, C_2–C_4 alkenyl, C_2–C_4 haloalkenyl, C_3–C_4 alkynyl, C_3–C_4 haloalkynyl, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, C_1–C_4 alkylsulfinyl, C_1–C_4 alkylsulfonyl, C_1–C_4 alkylamino, C_2–C_8 dialkylamino, C_3–C_6 cycloalkylamino, C_4–C_6 (alkyl)cycloalkylamino, C_2–C_4 alkylcarbonyl, C_2–C_6 alkoxycarbonyl, C_2–C_6 alkylaminocarbonyl, C_3–C_8 dialkylaminocarbonyl or C_3–C_6 trialkylsilyl;~~

R^{62} is H, C_1–C_4 alkyl or phenyl optionally substituted with 1–3 R^{65};

R^{63} is H or C_1–C_4 alkyl; or

R^{62} and R^{63} are taken together as $-(CH_2)_4-$ or $-(CH_2)_5-$;

R^{64} is H, C_1–C_{14} alkyl, C_1–C_3 haloalkyl, C_1–C_4 alkoxy, phenyl, phenoxy or benzyloxy;

each R^{65} is independently CH_3, Cl or OCH_3;

R^{66} is H, C_1–C_4 alkyl or C_1–C_4 alkoxy;

R^{67} is H, C_1–C_4 alkyl or benzyl;

j is 0 or 1; and

k is 0 or 1;

provided that:

(a) when k is 0, then j is 0;

~~(b) when R^2 is CH_2OR^a wherein R^a is H, optionally substituted alkyl or benzyl, then R^3 is other than cyano;~~

~~(c) when R^1 is phenyl substituted by Cl in each of the meta positions, the phenyl is also substituted by R^7 in the para position;~~

~~(d) when R^1 is phenyl substituted by R^7 in the para position, said R^7 is other than *tert*-butyl, cyano or optionally substituted phenyl;~~

(e) when R^1 is cyclopropyl or isopropyl optionally substituted with 1–5 R^6, then R is other than $C(=W)N(R^b)S(O)_2$-R^c-R^d wherein W is O, S, NR^e or NOR^e; R^b is hydrogen, C_1–C_4 alkyl, C_2–C_6 alkenyl or C_2–C_6 alkynyl; R^c is a direct bond or CHR^f, O, NR^e or NOR^e; R^d is an optionally substituted heterocyclic or carbocyclic aromatic radical having 5 to 6 ring atoms, the radical being optionally condensed with an aromatic or nonaromatic 5- or 6-membered ring; each R^e is independently H, C_1–C_3 alkyl, C_1–C_3 haloalkyl or phenyl; and R^f is H, C_1–C_3 alkyl or phenyl;

~~(f) the compound of Formula **I** is other than diethyl 6-amino-5-nitro-2-phenyl-4-pyrimidinemalonate~~.

2. (original) The compound of Claim 1 wherein

R^2 is CO_2R^{12}, CH_2OR^{13}, $CH(OR^{46})(OR^{47})$, CHO, $C(=NOR^{14})H$, $C(=NNR^{48}R^{49})H$, $(O)_jC(R^{15})(R^{16})CO_2R^{17}$, $C(=O)N(R^{18})R^{19}$, $C(=S)OR^{50}$, $C(=O)SR^{51}$, $C(=S)SR^{52}$ or $C(=NR^{53})YR^{54}$;

R^{12} is H, -CH[C(O)O$(CH_2)_m$]$_2$, -N=C(R^{55})R^{56}; or a radical selected from C_1–C_{14} alkyl, C_3–C_{12} cycloalkyl, C_4–C_{12} alkylcycloalkyl, C_4–C_{12} cycloalkylalkyl, C_2–C_{14} alkenyl, C_2–C_{14} alkynyl and phenyl, each radical optionally substituted with 1–3 R^{27}; or

R^{12} is a divalent radical linking the carboxylic ester function CO_2R^{12} of each of two pyrimidine ring systems of Formula **I**, the divalent radical selected from -CH_2-, -$(CH_2)_2$-, -$(CH_2)_3$- and -$CH(CH_3)CH_2$-;

R^{13} is H, C_1–C_{10} alkyl optionally substituted with 1–3 R^{28}, or benzyl;

R^{14} is H, C_1–C_4 alkyl, C_1–C_4 haloalkyl or benzyl;

R^{17} is C_1–C_{10} alkyl optionally substituted with 1–3 R^{29}, or benzyl;

R^{18} is H, C_1–C_4 alkyl, hydroxy, C_1–C_4 alkoxy or $S(O)_2R^{57}$;

R^{19} is H or C_1–C_4 alkyl;

each R^{27} is independently halogen, cyano, hydroxycarbonyl, C_2–C_4 alkoxycarbonyl, hydroxy, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, amino, C_1–C_4 alkylamino, C_2–C_4 dialkylamino, -CH[O$(CH_2)_n$]$_2$ or phenyl optionally substituted with 1–3 R^{44}; or

two R^{27} are taken together as -OC(O)O- or -O(C(R^{58})(R^{58}))$_{1-2}$O-; or

two R^{27} are taken together as an oxygen atom to form, with the carbon atom to which they are attached, a carbonyl moiety;

each R^{28} is independently halogen, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, amino, C_1–C_4 alkylamino or C_2–C_4 dialkylamino; or

two R^{28} are taken together as an oxygen atom to form, with the carbon atom to which they are attached, a carbonyl moiety;

each R^{29} is independently halogen, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, amino, C_1–C_4 alkylamino or C_2–C_4 dialkylamino;

each R^{44} is independently halogen, C_1–C_4 alkyl, C_1–C_3 haloalkyl, hydroxy, C_1–C_4 alkoxy, C_1–C_3 haloalkoxy, C_1–C_3 alkylthio, C_1–C_3 haloalkylthio, amino, C_1–C_3 alkylamino, C_2–C_4 dialkylamino or nitro;

R^{46} and R^{47} are independently C_1–C_4 alkyl or C_1–C_3 haloalkyl; or

R^{46} and R^{47} are taken together as -CH_2CH_2-, -$CH_2CH(CH_3)$- or -$(CH_2)_3$-;

R^{48} is H, C_1–C_4 alkyl, C_1–C_4 haloalkyl, C_2–C_4 alkylcarbonyl, C_2–C_4 alkoxycarbonyl or benzyl;

R^{49} is H, C_1–C_4 alkyl or C_1–C_4 haloalkyl;

R^{50}, R^{51} and R^{52} are H; or a radical selected from C_1–C_{14} alkyl, C_3–C_{12} cycloalkyl, C_4–C_{12} alkylcycloalkyl, C_4–C_{12} cycloalkylalkyl, C_2–C_{14} alkenyl and C_2–C_{14} alkynyl, each radical optionally substituted with 1–3 R^{27};

Y is O, S or NR^{61};

R^{53} is H, C_1–C_3 alkyl, C_1–C_3 haloalkyl, C_2–C_4 alkoxyalkyl, OH or C_1–C_3 alkoxy;
R^{54} is C_1–C_3 alkyl, C_1–C_3 haloalkyl or C_2–C_4 alkoxyalkyl; or
R^{53} and R^{54} are taken together as $-(CH_2)_2-$, $-CH_2CH(CH_3)-$ or $-(CH_2)_3-$;
R^{55} and R^{56} are independently C_1–C_4 alkyl;
R^{57} is C_1–C_4 alkyl, C_1–C_3 haloalkyl or $NR^{59}R^{60}$;
each R^{58} is independently selected from H and C_1–C_4 alkyl;
R^{59} and R^{60} are independently H or C_1–C_4 alkyl;
R^{61} is H, C_1–C_3 alkyl, C_1–C_3 haloalkyl or C_2–C_4 alkoxyalkyl;
m is an integer from 2 to 3; and
n is an integer from 1 to 4.

3. (original) The compound of Claim 2 wherein R^3 is halogen.

4. (currently amended) The compound of Claim 2 wherein R^1 is cyclopropyl ~~or phenyl substituted with a halogen, methyl or methoxy radical in the para position and optionally with 1–2 radicals selected from halogen and methyl in other positions~~; and R^4 is $-N(R^{24})R^{25}$.

5. (original) The compound of Claim 4 wherein R^2 is CO_2R^{12}, CH_2OR^{13}, CHO or $CH_2CO_2R^{17}$.

6. (original) The compound of Claim 5 wherein R^{24} is H, $C(O)R^{33}$ or C_1–C_4 alkyl optionally substituted with R^{30}; R^{25} is H or C_1–C_2 alkyl; or R^{24} and R^{25} are taken together as $=C(R^{39})N(R^{40})R^{41}$.

7. (original) The compound of Claim 6 wherein R^2 is CO_2R^{12}; and R^{24} and R^{25} are H.

8. (original) The compound of Claim 7 wherein R^{12} is H, C_1–C_4 alkyl or benzyl.

9. (currently amended) The compound of Claim 1 selected from the group consisting of:

methyl 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate,
ethyl 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate,
phenylmethyl 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate,
6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylic acid monosodium salt,
methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate,
phenylmethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate,
6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid monosodium salt[[,]]
and ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate[[,]]
~~methyl 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylate,~~
~~ethyl 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylate,~~
~~6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylic acid,~~
~~ethyl 6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylate,~~

~~methyl 6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylate, and~~
~~6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylic acid~~.

10. (original) A herbicidal mixture comprising a herbicidally effective amount of a compound of Claim 1 and an effective amount of at least one additional active ingredient selected from the group consisting of an other herbicide and a herbicide safener.

11. (original) A herbicidal mixture comprising synergistically effective amounts of a compound of Claim 1 and an auxin transport inhibitor.

12. (original) A herbicidal composition comprising a herbicidally effective amount of a compound of Claim 1 and at least one of a surfactant, a solid diluent or a liquid diluent.

13. (original) A method for controlling the growth of undesired vegetation comprising contacting the vegetation or its environment with a herbicidally effective amount of a compound of Claim 1.

14. (original) A herbicidal composition comprising a herbicidally effective amount of a compound of Claim 1, an effective amount of at least one additional active ingredient selected from the group consisting of an other herbicide and a herbicide safener, and at least one of a surfactant, a solid diluent or a liquid diluent.

15. (original) A compound which is 2-cyclopropyl-1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acid.

16. (original) A compound which is 5-chloro-2-cyclopropyl-1,6-dihydro-6-oxo-4-pyrimidine- carboxylic acid.

17. (original) A compound which is 5,6-dichloro-2-cyclopropyl-4-pyrimidinecarboxylic acid.

18. (currently amended) The compound of Claim 1 selected from the group consisting of:

methyl 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate,
ethyl 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate,
phenylmethyl 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate,
6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylic acid monosodium salt,
6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid,
methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate,
phenylmethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate,
6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid monosodium salt,
6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylic acid[[,]] and
ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate[[,]]
~~methyl 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylate,~~
~~ethyl 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylate,~~
~~6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylic acid,~~

~~ethyl 6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylate,~~
~~methyl 6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylate, and~~
~~6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylic acid~~.

19. (currently amended) The compound of claim 18 selected from the group consisting of:

ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate,
methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate[[,]]
~~methyl 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylate,~~
~~ethyl 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylate,~~
~~6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylic acid,~~
~~ethyl 6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylate,~~
~~6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylic acid,~~
~~methyl 6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylate,~~ and
6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid.

20. (original) A compound of claim 1 which is 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylic acid.

21. (original) A compound of claim 1 which is methyl 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate.

22. (cancelled) ~~A compound of claim 1which is methyl 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylate.~~

23. (cancelled) ~~A compound of claim 1 which is ethyl 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylate.~~

24. (cancelled) ~~A compound of claim 1 which is 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylic acid.~~

25. (original) A compound of claim 1 which is 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid.

26. (original) A compound of claim 1 which is ethyl 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate.

27. (original) A compound of claim 1 which is methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate.

28. (original) A compound of claim 1 which is ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate.

29. (original) A herbicidal mixture comprising a herbicidally effective amount of a compound of claims 18 or 19, and an effective amount of at least one additional active ingredient selected from the group consisting of an other herbicide and a herbicide safener.

30. (original) The herbicidal mixture of claim 10 wherein the additional active ingredient is selected from the group consisting of:

amidosulfuron, azimsulfuron, bensulfuron-methyl, bispyribac, bispyribac-sodium, chlorimuron-ethyl, chlorsulfuron, cinosulfuron, cloransulam-methyl, cyclosulfamuron, diclosulam, ethametsulfuron-methyl, ethoxysulfuron, flazasulfuron, florasulam, flucarbazone, flucarbazone-sodium, flucetosulfuron, flumetsulam, flupyrsulfuron-methyl, flupyrsulfuron-methyl-sodium, foramsulfuron, halosulfuron-methyl, imazamethabenz-methyl, imazamox, imazapic, imazapyr, imazaquin, imazaquin-ammonium, imazethapyr, imazosulfuron, iodosulfuron-methyl, mesosulfuron-methyl, metosulam, metsulfuron-methyl, nicosulfuron, oxasulfuron, penoxsulam, primisulfuron-methyl, propoxycarbazone, propoxycarbazone-sodium, prosulfuron, pyrazosulfuron-ethyl, pyribenzoxim, pyriftalid, pyriminobac-methyl, pyrithiobac, pyrithiobac-sodium, rimsulfuron, sulfometuron-methyl, sulfosulfuron, thifensulfuron-methyl, triasulfuron, tribenuron-methyl, trifloxysulfuron, triflusulfuron-methyl and tritosulfuron.

31. (original) The herbicidal mixture of claim 30 wherein the additional active ingredient is in combination with at least one other active ingredient to form a combination of active ingredients selected from the group consisting of:

chlorsulfuron and flucarbazone-sodium;
chlorsulfuron and sulfometuron-methyl;
flumetsulam, nicosulfuron and rimsulfuron;
mesosulfuron-methyl and iodosulfuron-methyl;
metsulfuron-methyl and chlorsulfuron;
metsulfuron-methyl and sulfometuron-methyl;
metsulfuron-methyl, thifensulfuron-methyl and tribenuron-methyl;
imazapyr and metsulfuron-methyl;
imazapyr, metsulfuron-methyl and sulfometuron-methyl;
imazapyr and sulfometuron-methyl;
rimsulfuron and nicosulfuron;
rimsulfuron and thifensulfuron-methyl;
thifensulfuron-methyl and metsulfuron-methyl;
tribenuron-methyl and metsulfuron-methyl;
tribenuron-methyl and thifensulfuron-methyl;
bensulfuron-methyl and metsulfuron-methyl; and
metsulfuron-methyl and chlorimuron-ethyl.

32. (original) The herbicidal mixture of claim 29 wherein the additional active ingredient is selected from the group consisting of:
amidosulfuron, azimsulfuron, bensulfuron-methyl, bispyribac, bispyribac-sodium, chlorimuron-ethyl, chlorsulfuron, cinosulfuron, cloransulam-methyl, cyclosulfamuron, diclosulam, ethametsulfuron-methyl, ethoxysulfuron, flazasulfuron, florasulam, flucarbazone,

flucarbazone-sodium, flucetosulfuron, flumetsulam, flupyrsulfuron-methyl, flupyrsulfuron-methyl-sodium, foramsulfuron, halosulfuron-methyl, imazamethabenz-methyl, imazamox, imazapic, imazapyr, imazaquin, imazaquin-ammonium, imazethapyr, imazosulfuron, iodosulfuron-methyl, mesosulfuron-methyl, metosulam, metsulfuron-methyl, nicosulfuron, oxasulfuron, penoxsulam, primisulfuron-methyl, propoxycarbazone, propoxycarbazone-sodium, prosulfuron, pyrazosulfuron-ethyl, pyribenzoxim, pyriftalid, pyriminobac-methyl, pyrithiobac, pyrithiobac-sodium, rimsulfuron, sulfometuron-methyl, sulfosulfuron, thifensulfuron-methyl, triasulfuron, tribenuron-methyl, trifloxysulfuron, triflusulfuron-methyl and tritosulfuron.

33. (original) The herbicidal mixture of claim 32 wherein the additional active ingredient is in combination with at least one other active ingredient to form a combination of active ingredients selected from the group consisting of:

chlorsulfuron and flucarbazone-sodium;
chlorsulfuron and sulfometuron-methyl;
flumetsulam, nicosulfuron and rimsulfuron;
mesosulfuron-methyl and iodosulfuron-methyl;
metsulfuron-methyl and chlorsulfuron;
metsulfuron-methyl and sulfometuron-methyl;
metsulfuron-methyl, thifensulfuron-methyl and tribenuron-methyl;
imazapyr and metsulfuron-methyl;
imazapyr, metsulfuron-methyl and sulfometuron-methyl;
imazapyr and sulfometuron-methyl;
rimsulfuron and nicosulfuron;
rimsulfuron and thifensulfuron-methyl;
thifensulfuron-methyl and metsulfuron-methyl;
tribenuron-methyl and metsulfuron-methyl;
tribenuron-methyl and thifensulfuron-methyl;
bensulfuron-methyl and metsulfuron-methyl; and
metsulfuron-methyl and chlorimuron-ethyl.

34. (original) A herbicidal mixture comprising synergistically effective amounts of a compound of either of claims 18 or 19 and an auxin transport inhibitor.

35. (currently amended) The herbicidal mixture of claim 11 wherein the compound is selected from the group consisting of :

ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate,
methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate[[,]]
~~methyl 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylate,~~
~~ethyl 6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylate,~~

~~6-amino-5-chloro-2-(4-chlorophenyl)-4-pyrimidinecarboxylic acid,~~
~~ethyl 6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylate,~~
~~6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylic acid,~~
~~methyl 6-amino-2-(4-bromophenyl)-5-chloro-4-pyrimidinecarboxylate~~ and
6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid, and the auxin transport inhibitor is diflufenzopyr.

36. (original) The herbicidal mixture of claim 11 wherein the compound is ethyl 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate and the auxin transport inhibitor is diflufenzopyr.

37. (original) The herbicidal mixture of claim 29 further comprising at least one of a surfactant, a solid diluent or a liquid diluent.

38. (original) The herbicidal mixture of claim 34 further comprising at least one of a surfactant, a solid diluent or a liquid diluent.

39. (original) The herbicidal mixture of claim 37 wherein the additional active ingredient is selected from the group consisting of:
amidosulfuron, azimsulfuron, bensulfuron-methyl, bispyribac, bispyribac-sodium, chlorimuron-ethyl, chlorsulfuron, cinosulfuron, cloransulam-methyl, cyclosulfamuron, diclosulam, ethametsulfuron-methyl, ethoxysulfuron, flazasulfuron, florasulam, flucarbazone, flucarbazone-sodium, flucetosulfuron, flumetsulam, flupyrsulfuron-methyl, flupyrsulfuron-methyl-sodium, foramsulfuron, halosulfuron-methyl, imazamethabenz-methyl, imazamox, imazapic, imazapyr, imazaquin, imazaquin-ammonium, imazethapyr, imazosulfuron, iodosulfuron-methyl, mesosulfuron-methyl, metosulam, metsulfuron-methyl, nicosulfuron, oxasulfuron, penoxsulam, primisulfuron-methyl, propoxycarbazone, propoxycarbazone-sodium, prosulfuron, pyrazosulfuron-ethyl, pyribenzoxim, pyriftalid, pyriminobac-methyl, pyrithiobac, pyrithiobac-sodium, rimsulfuron, sulfometuron-methyl, sulfosulfuron, thifensulfuron-methyl, triasulfuron, tribenuron-methyl, trifloxysulfuron, triflusulfuron-methyl and tritosulfuron.

40. (original) The herbicidal mixture of claim 39 wherein the additional active ingredient is in combination with at least one other active ingredient to form a combination of active ingredients selected from the group consisting of:
chlorsulfuron and flucarbazone-sodium;
chlorsulfuron and sulfometuron-methyl;
flumetsulam, nicosulfuron and rimsulfuron;
mesosulfuron-methyl and iodosulfuron-methyl;
metsulfuron-methyl and chlorsulfuron;
metsulfuron-methyl and sulfometuron-methyl;
metsulfuron-methyl, thifensulfuron-methyl and tribenuron-methyl;

imazapyr and metsulfuron-methyl;
imazapyr, metsulfuron-methyl and sulfometuron-methyl;
imazapyr and sulfometuron-methyl;
rimsulfuron and nicosulfuron;
rimsulfuron and thifensulfuron-methyl;
thifensulfuron-methyl and metsulfuron-methyl;
tribenuron-methyl and metsulfuron-methyl;
tribenuron-methyl and thifensulfuron-methyl;
bensulfuron-methyl and metsulfuron-methyl; and
metsulfuron-methyl and chlorimuron-ethyl.

41-42 (canceled)

43. (original) A method for controlling the growth of undesired vegetation comprising contacting the vegetation or its environment with the herbicidal mixture of claim 32.

44. (original) A method for controlling the growth of undesired vegetation comprising contacting the vegetation or its environment with the herbicidal mixture of claim 33.

45. (original) A method for controlling the growth of undesired vegetation comprising contacting the vegetation or its environment with the herbicidal mixture of claim 34.